

IPA
FUTURE NOW[®]

**USA Manufacturer of Innovative
Tools and Equipment Since 1996**

PRODUCT CATALOG



Specialty and Diagnostic Tools



Brushes and Abrasives



Trailer and Electrical Maintenance

Available Through Your Local Tool Distributor
INNOVATIVE PRODUCTS OF AMERICA[®]

LETTER FROM THE PRESIDENT OF IPA®

My name is Ian Vinci and I would like to thank you for your interest in our products. In today's world, we have all experienced the lack of service and consideration demonstrated by many companies after you buy their products. They say whatever they can to make the sale, and then it's like pulling teeth to get any service response out of them. I know this myself firsthand and because of this, I want to be sure that your experience with IPA® meets your expectations and that IPA® never disappoints you with our service or customer response.

To prove my commitment to you, if for any reason you are not happy with one of our products, or more importantly, with the response from our customer service department, or any other member of the IPA® team, I invite you to contact me at president@ipatools.com or call me at 888-786-7899. Your satisfaction is more important to me than the sale itself. We will not be in business for long if we don't make you completely happy with our products and service. I want IPA® to be different and be known for its quality and service.



With that said, please take a look at our product line. You will see innovative, first-time tools that were created to help you do your job faster and better than before. I would also like to invite you to critique our products. If you can think of a better way to make them or changes that will make them work better, please contact me directly and I will be sure to look into it. If you have an innovation and would like some feedback, give me a call.

From all of us at IPA®, we thank you for taking the time to review our product line and wish you and your family the very best of everything.

Ian Vinci
President
Innovative Products of America®

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RamRodz® Gun Cleaning System

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Specially Engineered Blow Guns for a Variety of Common Industrial Applications



The innovative and versatile **3-Pc. Specialty Blow-Gun Assortment** includes an Air Bender®, Air-Scraper and BlowBack® Gun model. They are ideal for countless applications in engine repair, machine shop, Ag/construction, and general industrial applications and much more.

#8056 - AIR BENDER® BLOW GUN

- Reaches hard-to-access areas with a focused, high-pressure, 90° angle output
- Intuitive and safe design allows the blow back to be away from your face
- Ideal for blowing out channels, ports, or reaching around obstructions

#8057 - AIR-SCRAPER BLOW GUN

- Combines air pressure and scouring action to remove and blow away stuck-on debris faster than other methods
- Designed with a stainless-steel shaft and hardened-steel scraper tip
- Ideal for cleaning gasket material hardened to a surface such as grease and rust

#8058 - BLOWBACK® GUN

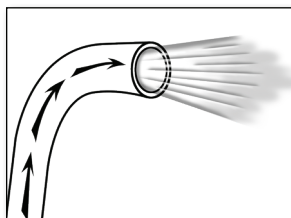
- Dislodges and evacuates debris from the bottom of a bolt hole and all of the threads
- Features 6 extra holes for 360° action plus front air flow
- Ideal for cleaning head-bolt holes, anchor bolt holes, manifolds and more

Specifications

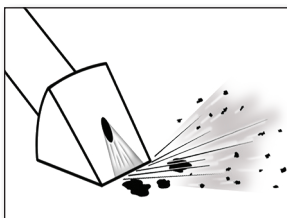
Shop Air: 145 psi Max Input
Air Inlet: ¼" NPT
Overall Length: 10 5/8"

Tube Length: 7"
Tube Diameter: 3/8"
Tube Material: Anodized Aluminum and Stainless Steel

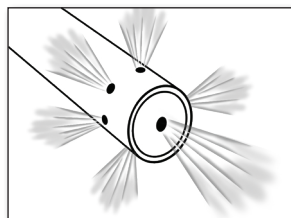
ALSO AVAILABLE INDIVIDUALLY



8056
AIR-BENDER® BLOW GUN



#8057
AIR-SCRAPER BLOW GUN



#8058
BLOWBACK® GUN

#8050-#8053 AIR COMB® FILTER AND RADIATOR CLEANER**90° Multi-Port Air Gun**

Special, multi-port nozzle maximizes air pressure and volume at a 90° angle to thoroughly clean air filters, condensers, radiators, etc.

- Focused, high-pressure output
- 5X the air volume
- Long-reaching, 90° airflow
- Accesses hard-to-reach areas
- Great for air filters, condensers, radiators, etc.
- Does not punch holes in air filters
- OSHA safe
- Available in four sizes: 12", 24", 36" and 48"

Industries

Agriculture, Construction, Automotive, Industrial, Stationary Power and Others



#8050 - 12"



#8051 - 24"



#8052 - 36"



#8053 - 48"



SPECIALTY TOOLS

#7862-#7864 GREASE JOINT REJUVENATOR®

LIFETIME
WARRANTY

Patented

Have You Ever Tried to Force Grease Through a Grease Fitting and Couldn't? Now You Can!

The **Grease Joint Rejuvenator®** forces light oil into a grease joint, flushing out old, hardened grease and allowing new grease to be pushed through.

- Instantly opens clogged grease joints
- Cleans ways and stays in milling machines and lathes
- Lubricates and unclogs bearings, control arms, king pins, piston arms, packaging, shafts, bushings, etc.
- Can be used on farm, construction, lawn, excavating, manufacturing, machine shop and well-drilling equipment, as well as trucks, trailers and marine drivetrains



#7863 GREASE JOINT REJUVENATOR® MASTER KIT

Includes

- Professional Model #7862
- Pocket Model #7864
- 5" Flex Hose
- Extra Coupler



MADE IN
USA

#7862 GREASE JOINT REJUVENATOR® PROFESSIONAL MODEL

Includes

- 5" Flex Hose
- Extra Coupler

Also Available in Clamshell: #7862H



#7864 GREASE JOINT REJUVENATOR® POCKET MODEL

- Especially handy for small equipment
- Provides high pressure for stubborn clogs



#8100 14" LARGE MANTUS™

Go Where No Tool Has Gone Before!

The **14" Large MANTUS™** is the ultimate tool for accessing hard-to-reach areas. Surpassing the reach of the industry's longest available needle nose pliers with greater precision and control, the MANTUS™ provides a sure grip on a variety of surfaces including fuses, wires, hoses, gaskets, O-rings, hardware and more!

- Durable, surgical stainless steel construction
- Slim-profile design for reaching tight-access areas
- Extended length for greater versatility



Serrated Interlocking Teeth

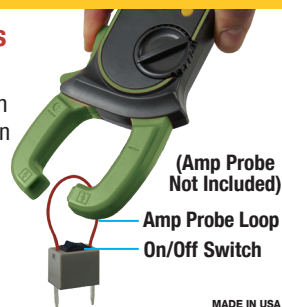


#8041 MANTUS™ TIGHT-ACCESS TOOL

#9038A RELAY BYPASS SWITCH KIT WITH AMP LOOP**Allows Circuit Bypass and Current Testing for 12V DC Relays**

The **Relay Bypass Switch Kit with Amp Loop** energizes fuel pumps and any 12V relay by powering a DC motor for testing. It also makes DC motor actuation and current monitoring easy. By attaching an Amp Clamp or Lab Scope, you can monitor the current or amperage readings. It allows a technician to judge the health of the DC electric motor to identify if a motor is drawing more current than specified, or if the current load is inconsistent during operation.

- Controls relay circuits independent of “key-on/key-off” systems
- Runs automotive, 12V DC motors with the push of a switch
- Simplifies fuel injection testing
- Use in conjunction with clamp-on Amp Probes and Lab Scopes
- Operating range: Up to 20 amp continuous, 30 amp surge (12V)
- Covers most makes and models



MADE IN USA
OF GLOBAL COMPONENTS



#9036A-1 #9036A-2 #9036A-3 #9037A-3 #9037A-2 #9037A-1

**#9038 FUEL PUMP RELAY BYPASS MASTER KIT****Energizes a Fuel Pump with the Push of a Switch**

Conveniently combining the #9036 and #9037, the 6-piece **Fuel Pump Relay Bypass Master Kit** provides direct control of the fuel pump circuit in most domestic, Japanese, Korean and German applications.



MADE IN USA
OF GLOBAL COMPONENTS



#9036-1
Domestic,
Korean,
Japanese
2000 & Newer

#9036-2
Domestic,
Japanese
1970-2009

#9036-3
Volkswagen
1999-2005
Audi
2004-2006

#9037-3
GM,
Chrysler,
Japanese
1995-2007

#9037-2
BMW
1995-2006

#9037-1
GM, Chrysler,
Japanese
1985-2009

#9037 FUEL PUMP RELAY BYPASS KIT II (3-Piece Set)

Includes #9037-1, #9037-2, #9037-3

#9036 FUEL PUMP RELAY BYPASS KIT I (3-Piece Set)

Includes #9036-1, #9036-2, #9036-3



SPECIALTY TOOLS

#8016 FUSE SAVER® MASTER KIT

Chases Down Short Circuits Without Blowing Fuses!

Provides a level of versatility in electronics testing (5-30 amps) never before available.



- Helps diagnose radios, CD players, radar detectors and accessories with ease
- The BuzzAlert™ module plugs inline to your Fuse Saver® and sounds an alert when the circuit shorts
- The 6-piece Fuse Box Adapter Kit allows access to a wide variety of fuse boxes: FLF, FLS, JCase, MAXI, Female Maxi, screw-on style pal, European ceramic and all glass-style fuses

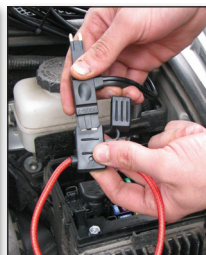
Includes

- 5 Color-Coded, Resetting Breaker Handles: 5, 10, 15, 20 and 30 amps
- #8005-7AS Dual-Type Fuse Box Connector with 10' Cord
- #8011 BuzzAlert™
- #8014 Fuse Box Adapter Kit



Parts & Accessories

- #8005-5AMP (5 amp Handle)
- #8005-10AMP (10 amp Handle)
- #8005-15AMP (15 amp Handle)
- #8005-20AMP (20 amp Handle)
- #8005-30AMP (30 amp Handle)
- #8005-EXT (10' Ext. Cable)



#8005 FUSE SAVER® STANDARD KIT

No More Overheating Fuse Boxes!

The **Fuse Saver®** provides a fast and safe solution to the old methods of “smoke testing” a short.



- Allows a technician to move around a vehicle shake testing wires while looking for the short
- Dual-type fuse box connector with 10' cord eases the installation of radios, CD players, radar detectors and other accessory equipment

Includes

- 3 Color-Coded, Resetting Breaker Handles: 10, 15 and 20 amps
- #8005-7AS Dual-Type Fuse Box Connector with 10' Cord



#7884 DISC BRAKE SYSTEM ANALYZER

**LIFETIME
WARRANTY**

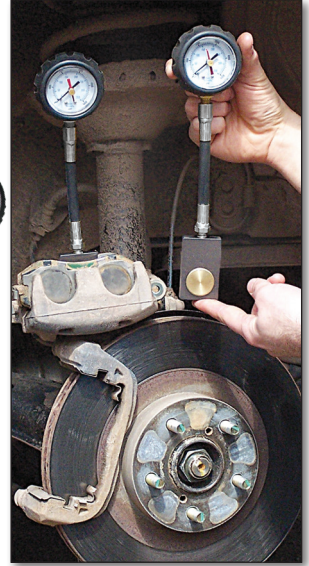
Patented



Uneven Brake Pad Wear? Eliminate Guesswork When Troubleshooting Disc Brake Problems

The only tool that identifies an imploded brake hose and accurately detects exactly where the problem lies without breaking a line.

- Has two load cells attached to analog gauges that each have a range of 0-5000 psi (0-350 BAR)
- Gauges are built with a red tell-tale memory needle that allows for one-man brake testing
- Tests improperly adjusted proportioning valves, air in hydraulic systems, power booster problems, rear brake adjustment check, etc.
- Tests sticky or broken brake calipers
- Identifies the exact cause of uneven wear



#7880 TDC INDICATOR STANDARD 6.25" (14MM THREAD)

**LIFETIME
WARRANTY**



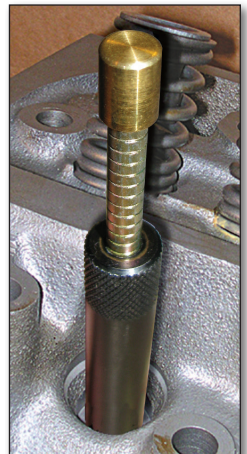
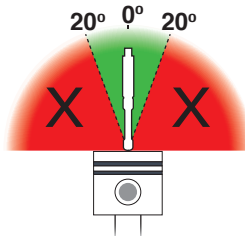
Stop the Guessing and Easily Set a Piston to TDC

The **TDC Indicator** enables a technician to accurately set a piston to top dead center (TDC). Just remove the spark plug, screw in the gauge and rotate the engine while observing the radial marks on the sliding shaft and note the top of the piston stroke.

- Accurately displays piston movement
- Installs as easily as a spark plug
- 6 1/4" long (14mm thread)
- 1/8" gradient marks
- Made of 1144 steel alloy with a stainless steel spring



DO NOT use on an engine that has an acute spark plug angle relative to the flat top of the piston or you may bend the TDC shaft.



SPECIALTY TOOLS

#7882 WHISTLE ALERT (RIGID)

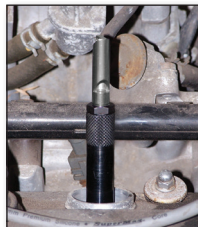
LIFETIME
WARRANTY



No More Burning Fingers and Hands! Just Listen for the Whistle to Find the TDC Compression Stroke

The **Whistle Alert (Rigid)** screws into a spark plug hole to quickly indicate compression stroke.

- Eliminates the need for an extra hand
- After installation, your hands are free to complete the job
- Excellent for use on deep, recessed spark plug threads



#7894 WHISTLE ALERT (FLEXIBLE)

LIFETIME
WARRANTY



Identifies Compression Stroke in Hard-to-Reach Areas

The **Whistle Alert (Flexible)** identifies compression stroke and performs the same job as the rigid version, but can be placed in hard-to-reach places where the rigid version would be difficult or impossible to place.

- Eliminates the need for an extra hand
- Can be used in hard-to-reach places
- After installation, your hands are free to complete the job
- Excellent for use on deep, recessed spark plug thread



#7881 COMPRESSION GAUGE EXTENSION

LIFETIME
WARRANTY

Patented



No More Stuck Compression Gauges

The **Compression Gauge Extension** brings a spark plug hole above the valve cover on engines with a deep spark plug socket or coil over design.

- No more difficulty removing threaded hoses from deep holes
- Easy to install and remove
- Adapters available for various applications



#8040 DIAMOND-TIP ELECTRICAL TERMINAL CLEANERS

Patented

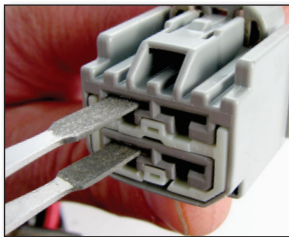
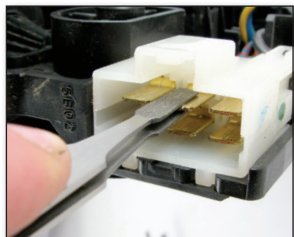
For Electrical Flat (Spade) Pin Connectors

This 3-piece, pro-series set features three different size tips specifically designed and custom engineered to fit and clean most male/female flat pin connectors.

- Highly durable with mild abrasive coating
- Pivoting handle design for added versatility
- Works for both male and female connectors on flat (spade) pin terminals
- Designed to clean and enhance electrical connections safely
- Increases overall harness life

Includes

- Small, medium and large terminal cleaners
- Premium-quality holster with magnetic clasp



#8042 DIAMOND MICRO ROUND FILES

Super Hard, Flexible and Diamond Coated for Cleaning Small, Round, Female Electrical Pins

This 12-piece set of **Diamond Micro Round Files** is specially designed to remove corrosion from Cannon, Deutsch, Bullet, NATO, Weather Pack and other round terminal connections.

- Strong but flexible
- Specially designed for cleaning small, round electrical connectors
- Diameter sizes range from 0.030"-0.120" and 5" long
- For use in general filing applications such as steel, aluminum, plastic, brass, etc.
- Comes in a premium-quality holster with magnetic clasp
- Individual sizes are marked and available for replacement



SPECIALTY TOOLS

#8043 MICRO MALE ELECTRICAL PIN CLEANERS

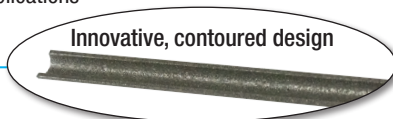
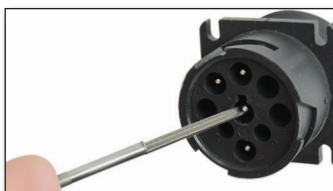
Cleans Deutsch, Cannon, Bullet and Other Round Electrical Pins

Specially engineered with a contoured design and diamond coating to clean male electrical pins safely. The 3-piece set includes a leather-type holster and cleans pins ranging in sizes from .030"-.040", .060"-.070, and .090"-.100" – the same sizes found in most makes of cars, trucks, construction, agriculture, industrial and military equipment.

- For all types of male electrical pin applications
- Durable diamond coating
- For use on DC circuitry only
- Will not damage pins

Includes

- Small, medium and large terminal cleaners
- Premium-quality holster with magnetic clasp



#8047 DIAMOND-COATED FLEXIBLE FLAT FILES

Super Hard, Flexible, Flat Cleaners for Large Spade Electrical Contacts and General Filing Applications

This 3-piece, pro-series set covers a wide range of contact sizes for cleaning and enhancing electrical connections to reduce diagnostic guesswork and increase contact life.

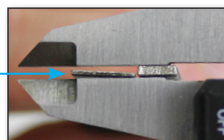
- Highly abrasive and durable
- Ultra thin and flexible for added functionality
- Non-slip, high-viz, ergonomic handles for comfortable use



15mm 9mm 6mm

2X

Thinner than the smallest available file



BrushAll®

A Division of IPA®

BrushAll® is the Answer to a Lack of Innovation in the Abrasives Industry!

The BrushAll® division provides cutting-edge, first-time products to various abrasive industries while also enhancing standard abrasives with new features designed to save time and increase performance. Diamond grinding and cut-off wheels, wire hand brushes, truck and trailer connector cleaners and bore brushes are all being offered under the new division as IPA® continues to expand the BrushAll® line.

Our engineers are dedicated to the continuous development of time-saving and innovative problem-solving solutions through the use of brushes, diamond abrasives and other materials. Our focus is to create versatile products that can be used anywhere, with features designed to help users complete the job faster with superior results. Countless solutions have yet to be brought to market. Through the BrushAll® division, IPA® is committed to the ongoing advancement, development and release of new abrasive products.

BrushAll® offers professional-grade products for every walk of life, providing superior tools for the household, shop, and everywhere else abrasives are needed.



Brushes & Abrasives for All Industries



#8120, #8130, #8131, #8150, #8151, #8152 DIAMOND GRINDING AND CUT-OFF WHEELS

Virtually Indestructible! Last 60X Longer than Standard Grinding Wheels!

NEW

- Thin design engineered for long-lasting and fast-cutting – 60x longer life than standard abrasives
- Grind, cut and deburr without swapping wheels
- Core bonding diamond technology exposes full diamond particles for maximum performance
- Steel core maintains shape and does not shatter
- Safer for users - less sparks and dust than traditional abrasives
- For use with straight and right angle die grinders for grinding, deburring, surface prepping, cutting sheet metal, fiberglass, concrete and more



#8120 - 2" 3-In-1 Diamond Grinding Wheel



#8131 - 3" Diamond Cut-Off Wheel



#8151 - 3" 3-In-1 Diamond Grinding Wheel



#8130 - 4.5" Diamond Cut-Off Wheel



#8150 - 4.5" 3-In-1 Diamond Grinding Wheel



#8152 - 4.5" Diamond Cut-Off & Grinding Wheel

Specifications	Size	Style	Abrasive Areas	Arbor	Speed
#8120	2"	Cut-Off and Grinding	Face, Edge and Back	1/4"	13,000 rpm Max.
#8131	3"	Cut-Off	Edge	3/8"	13,000 rpm Max.
#8151	3"	Cut-Off and Grinding	Face, Edge and Back	3/8"	13,000 rpm Max.
#8130	4.5"	Cut-Off	Edge	7/8"	13,000 rpm Max.
#8150	4.5"	Cut-Off and Grinding (Type 29)	Face, Edge and Back	7/8"	13,000 rpm Max.
#8152	4.5"	Cut-Off and Grinding (Type 27)	Face, Edge and Back	7/8"	13,000 rpm Max.

#8160 CUT-OFF WHEEL MANDREL ADAPTER

Adapts 3/8" Arbor to 1/4" Drive

The **BrushAll® Cut-Off Wheel Mandrel Adapter** adapts cutting discs and other abrasive tools from 3/8" arbor to 1/4" mandrel. This heavy-duty design, built for professionals and extreme-use applications, is compatible with drill chucks, air tools, die grinders and more.

- Adapts rotary tools with 1/4" collet to abrasives that accept 3/8" arbor
- Heavy-duty design
- Works with most abrasive wheel types
- Specially engineered to handle the wear and tear of use with diamond abrasive discs



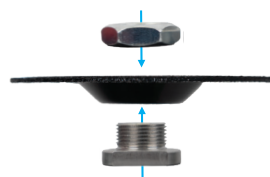
NEW

#8162 ANGLE GRINDER THREAD ADAPTER

Adapts 7/8" Arbor to 5/8"-11 Thread

The **BrushAll® Angle Grinder Thread Adapter** converts grinding wheels and abrasive discs with 7/8" arbor to a female 5/8"-11 thread. This heavy-duty design, built for professionals and extreme-use applications, is compatible with most abrasive wheel styles including depressed center, cut-off and more.

- Adapts 7/8" arbors to female 5/8"-11 thread
- Heavy-duty design with thin profile
- Works with most abrasive wheel types featuring a 7/8" arbor
- Specially engineered to handle the wear and tear of use with diamond abrasive discs
- Nut included with adapter



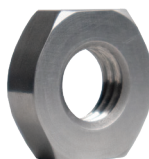
NEW

#8163 ANGLE GRINDER LOW-PROFILE NUT

Connects BrushAll® Wheels to Standard Angle Grinders with 5/8"-11 Threads

The **BrushAll® Angle Grinder Low-Profile Nut** is specifically engineered to maximize cutting area. It features a modified hex design which allows it to fit inside the recessed area of BrushAll® depressed center cut-off and grinding wheels, where traditional nuts won't reach. This nut is included with the #8152 Diamond Grinding and Cut-Off Wheel.

- 5/8"-11 Threads
- Heavy-duty design with low profile and diameter
- Works with most abrasive wheel types on grinders with 5/8"-11 threads
- Included with #8152 Diamond Grinding and Cut-Off Wheel



NEW  **MADE IN USA**



#8108 8" DIAMOND FILE SET**4-Piece Set of Premium Industrial Files**

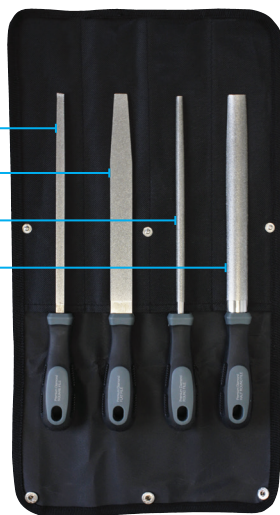
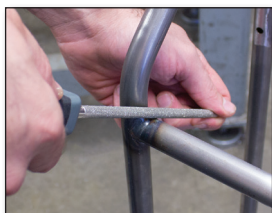
- Many times harder than conventional files
- Cuts 10X faster and in all directions
- Cuts into welds and hardened surfaces where other files can't
- Smooth action
- 12" overall length with 8" blade
- Comes in a custom folding pouch

Square

Flat

Round

Half Round

**#8094N, #8094S BRUSHALL® WIRE HAND BRUSH**

Patent Pending

Your Go-To Brush for Any Need: Industrial-Quality, Wire End Brush with Ergonomic Handle**NEW**

The BrushAll® Wire Hand Brush line is multi-purpose and ideal for any task: detailing, cleaning parts, applying solvents and chemicals, or cleaning pots, dishes, cast iron cookware, bike chains, grills, grout and bathrooms. The Wire Hand Brush's densely packed head is mounted on a soft, ergonomic handle for a comfortable grip in multiple positions and prevents hand fatigue when applying maximum force while pushing and twisting. Measuring 7" long with a 1.25" diameter head, each commercial-quality brush outperforms standard wire brushes in many applications. When applying solvents or chemicals, BrushAll® works for you.

- Professional-grade, stainless-steel wire or nylon bristles
- Resists chemicals and solvents
- Removes dirt, debris and rust
- Cleans recessed areas where standard brushes cannot
- Ergonomic handle ensures fatigue-free grip, maximizing force while pushing and twisting
- Ideal For: Cast iron cookware, dishes, pots, grout, sinks, shower/tub, bathrooms, toilets, bike chains, grills and more
- Patent Pending

**Available in****#8094N Nylon****#8094S Stainless Steel**

#8090B, #8090S SPECIALTY ENGINE BRUSH KIT

Specially Designed to Clean Bores, Injector and Valve Seats on Most Light, Medium and Heavy-Duty Diesel Motors

17-piece kit includes Helix Brushes, Two-Stage Brushes, Bore Brushes and SWAB-EEZ®.

- Brushes are specially engineered to fit injector seats
- Removes rust, carbon and other debris from seats and cups without damage
- Driver handle features a spring-loaded, quick-lock coupler
- 1/4" drive hex shaft allows for quick interchange of brushes, drivers, extensions and the use of LOW SPEED drills
- 3", 4" and 6" brushes
- Intended for hand use - Do NOT exceed 600 rpm - Clockwise rotation only
- SWAB-EEZ® for cleaning and polishing injector bores and cups

Available in

#8090B Brass

#8090S Stainless Steel



Helix Brushes



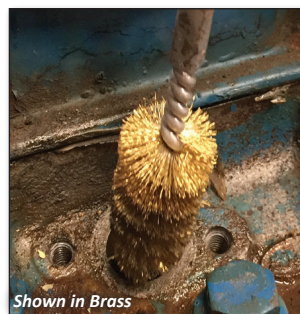
Two-Stage Brushes



Bore Brushes

Includes:

13 Custom Brushes,
Driver Handle, 6" Rigid
and Flexible Extensions,
400+ Assorted SWAB-EEZ®
and Custom Blow-Molded Case



6" Flexible Extension



6" Rigid Extension



Driver Handle with
Quick-Lock Coupler

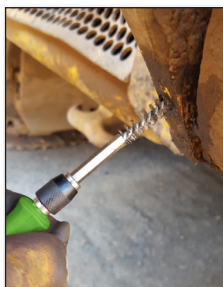
#8001D 36-PIECE ORIGINAL BORE BRUSH SET**Cleans Bushings, Ports, Tubes, Holes, Channels, Sockets, Brake Guides, Etc.**

This 36-piece set has stainless steel, brass and nylon bristle brushes to clean a wide variety of surfaces and locations.

- Twisted wire for increased cleaning action
- For use in Automotive, Agricultural, Industrial and MRO Industries
- Do not exceed 600 rpm

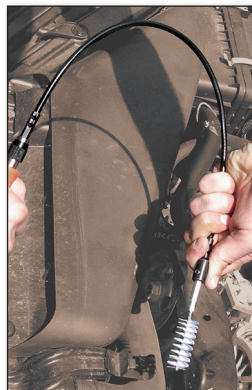
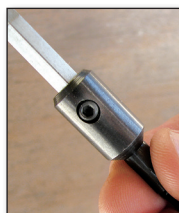
Includes

- 36 Brushes: 12 Steel, 12 Brass and 12 Nylon (8mm-19mm Diameter with 1/4" Hex Shank)
- 1/4" Locking Bit Head Driver

**#8004 FLEXIBLE EXTENSIONS (FOR THE BORE BRUSH SET)****Have Full Access to Clean Hard-to-Reach Areas**

The set includes 6", 12" and 18" **Flexible Extensions** with a locking set screw.

- 6", 12" and 18" flexible extensions on 1/4" drive hex shank
- Perfect for accessing hard-to-reach transmission valve bodies, oil galleys and EGR ports
- 1/4" female coupler uses a set screw to prevent a brush or similar-type tool from slipping
- Allen key included

**#8004D FLEXIBLE EXTENSIONS AND 1/4" DRIVER HANDLE**

#8037-#8038 XL BORE BRUSHES (4-PIECE SET)

Cleans Brake Calipers, Throttle Bodies, Fittings and More!

- 4-piece set (25, 30, 35 and 40mm sizes)
- 1/4" hex drive, 3 1/2" overall length
- Unique large sizes for use on cars, trucks, motorcycles, engines, transmissions, etc.
- Available in stainless steel (#8037) or brass (#8038)
- Also available individually
- Do not exceed 600 rpm



#8037 Stainless Steel

#8038 Brass



#8080-#8081 TWISTED WIRE BORE BRUSH SETS

6-Piece Bore Brush Set Features the Most Common Sizes

- Durable and abrasive bore brushes
- 6-piece set (8, 10, 12, 15, 17 and 19mm sizes)
- 1/4" hex shank
- Available in stainless steel (#8080) or brass (#8081)
- Do not exceed 600 rpm



#8081 Brass

#8080 Stainless Steel

#8083-#8085 9" BORE BRUSH SETS

3-Piece Set of 9" Bore Brushes with Driver Handle

The 9" long-reach bore brushes are ideal for cleaning tubes, ports, bearings and other deep hole applications.

- 3-piece set (10, 15 and 19mm sizes) with 1/4" standard driver handle
- Innovative, long-reach design; 1/4" hex shank
- Use on ports, tubes, bearings and other common wire brush applications



#8083 Stainless Steel

#8084 Brass

#8085 Nylon

10mm

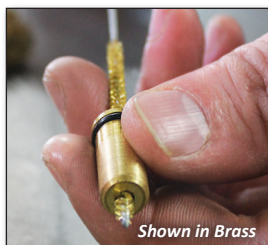
15mm

19mm



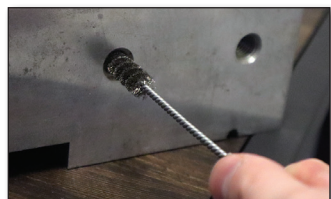
#8087-#8088 MICRO BORE AND VALVE-GUIDE BRUSH SET**8-Piece Set of Small-Diameter Brushes for Precisely Cleaning Valve Guides, Bores, Ports and More**

- 9" length with flexible shaft for accessing hard-to-reach areas
- Includes 8 sizes: $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{13}{64}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ " and $\frac{1}{2}$ "
- Durable, twisted wire for increased cleaning function
- Extra-large finger loop for enhanced control

**Available in****#8087 Stainless Steel****#8088 Brass****#8093 TUFTED-END BORE BRUSH SET (STAINLESS STEEL)****3-Pc. Set of Industrial, Tufted-Ended, Professional-Grade Bore Brushes****NEW**

This durable, abrasive bore brush set features the most common sizes for cleaning blind holes, tubes, threaded holes and more. Designed to provide a more thorough cleaning, these high-quality brushes feature long handles and tufted ends for hard to-reach areas. Each brush is fitted with a $\frac{1}{4}$ " hex shank.

- 3-piece set includes 10, 15 and 19mm sizes
- Use on brake calipers, ports, bearings, blind and threaded holes and more
- Tube brush for cleaning inside threads, tubes and bores; tufted-end for cleaning blind holes
- High-density, strong bristles that last longer and clean better
- Long shank for access to deeper holes and hard-to-reach areas
- $\frac{1}{4}$ " hex shaft for adapting to standard driver handles
- Can be used with driver or low-speed drill; DO NOT exceed 600 RPM; NEVER use in reverse



MOBILE UNIVERSAL TRAILER TESTERS



IPA® sets the standard for professional trailer testing with rugged, high-performance solutions designed for all levels of users. Our Shop, Service-Truck, Bench-Top, and Ultra-Portable testers incorporate cutting-edge engineering, with advanced diagnostic technology and software available in our high-end models. Built for extreme durability, these testers thrive in the toughest environments and come with an industry-leading warranty for long-term reliability. Designed for ease of use, they eliminate the need for guesswork – ensuring fast, accurate diagnostics without concessions. With 24/7 technical support, live chat, and expert assistance always available, IPA® delivers unmatched service and support for every customer.

- **USA Original Equipment Manufacturer (OEM) Since 1996**
- **Industry-Leading Patented and Proprietary Technology**
- **Over 25 Models for Every Application**
- **24-Hr. Repair/Replace Policy**
- **24/7 Tech Support with Live Chat**
- **3-Year Warranty on Diagnostic Equipment**



ALPHA MUTT® (2ND GEN) WITH ABS SERIES

A Complete, Diagnostic Trailer-Inspection System Integrating All Aspects of Trailer Service and Repair – Perform More Inspections in Less Time!

Electrical Testing (12/24 Volt Operation)

- Automatic cross, open, overload, short and ground fault detection
- Highly accurate digital ammeter with 5mA resolution
- Chase down short circuits with Pulsar® Mode
- Cable testing
- Ground failure detection: differentiates between wire and chassis ground
- Detailed inspection report generated from auto-test report function in under 60 seconds

Models Available With
Standard Tablet, Rugged
Tablet, or No Tablet



**3-YEAR
WARRANTY**

Air Brake Testing

- Tablet or remote-controlled air brake activation
- Real-time, repetitive brake activation to find developing problems and verify leaking servo cans
- Perform analog leak-down tests in service and emergency lines

ABS Testing

- Reads and clears codes on front panel or via tablet
- Displays diagnostic troubleshooting information
- Accesses ECU data; manufacturer, make, model, etc.
- No lag time when accessing ABS with IPA®'s custom diagnostic software



SHOP MODEL

Weather-Tight Door



Easy Slide
Out Design

SERVICE-TRUCK MODEL

Available with
Built-In Battery



Tri-Mount
Handle Design

BENCH-TOP MODEL

PRODUCTIVITY SOFTWARE SUITE

Provides Highly Accurate Inspection Results for All Common Trailer Configurations

IPA®'s custom diagnostic software suite provides highly accurate inspection results for all common trailer configurations. It standardizes consistent inspections across all fleet and service center locations with one-button pass/fail inspections and printable reports. It reduces labor time, prevents mistakes and creates more detailed service records.

Capture Inspection Reports

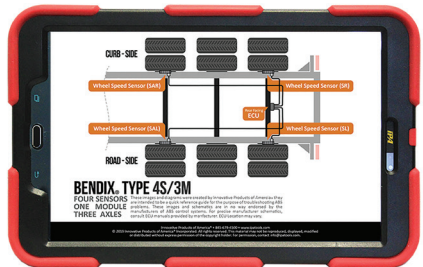
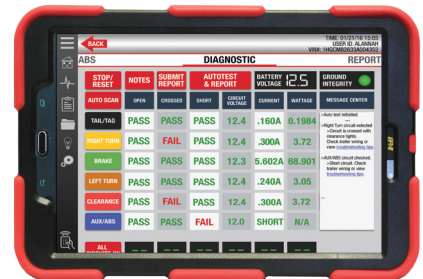
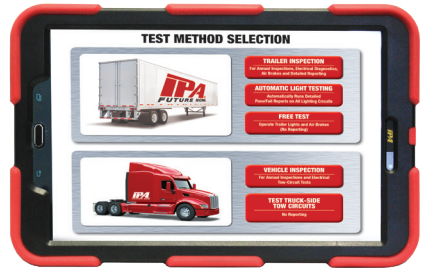
- Inspection accountability
- Customizable, password-protected user login
- Technician's username is recorded with each test
- Trailer VIN entry with each inspection maintains more accurate record keeping

Prevents Recurring Mistakes and Provides Walk-Through Expert Guidance

- Built-in Diagnostic Message Center analyzes inspection results in real-time, providing users with immediate feedback and troubleshooting suggestions
- Detailed pass/fail circuit conditions (ground, open, crossed and short) will alert with specific values
- Provides real-time data and control
- Records multiple data points for each circuit, including wattage, voltage and current
- Reads accurate current from 0-21A @ 5mA resolution

Record and Analyze Inspection Results

- Logs detailed pass/fail inspection reports
- Easily accessible report history allows technicians to analyze patterns for predictable failure points across all fleet service operations
- Upgradeable cloud-based option syncs an unlimited number of service locations with a central hub
- Email, print or export reports to PDF or XLS formats



Base Functions Work with or Without Tablet

Military-Grade Tablet* Withstands:

Salt fog, settling and blowing dust, rain, icing, humidity, immersion, vibration, dropping, high/low temperatures and high altitude.

*Available with:

#5710A-RT8, #5610A-RT8, #5611A-RT8, #5510A-RT8 and #5510A-L4RT8



TRAILER & ELECTRICAL MAINTENANCE

#5710A-T10 ALPHA MUTT® (2ND GEN) WITH ABS AND TABLET

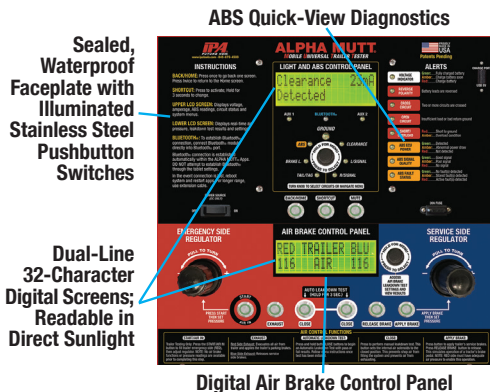
Shop Model Features and Benefits

- Tests continuity to trailer connectors of tractor and air brake output at tractor gladhands
- Two dual-line, 32-character, sealed LCD screens optimized for outdoor use with backlighting for nighttime, sunlight-readable for daytime and wide-angle view
- Durable cart design with heavy-duty 12" pneumatic wheels and 5" dual-lock swivel casters
- Integrated battery compartment fits (2) Group 31 batteries

SHOP MODEL



3-YEAR WARRANTY



Digital Air Brake Control Panel

Shop Model Specifications

Power Input:	12/24V DC
Suggested Battery:	(2) Group 31 Threaded Post (or similar) Not Included
Source Output:	20A @ 12/24V DC
Ammeter:	4mA-21A
Max. Opt. Pressure:	120 psi
Connection Type:	7-Way Round Pin
Controls:	Tablet, Remote or Manual
Tablet:	Android OS
Bluetooth®:	4.0 or Newer
Tires:	12" Pneumatic
Materials:	16 Gauge Powder-Coated Steel
Weight:	85 lbs.
Body Dimensions:	23" W x 45" H x 22" D
Battery Compartment:	14" W x 15 1/2" H x 13" D
Internal Bat. Charger:	12V 10A Smart Battery Charger

Includes

10" Tablet, 12-Button Remote Control, 12' 7-Way Cable, 12' Gladhand Hoses with Handles, Bluetooth® Antenna, 12" Bluetooth® Antenna Extension Cable, Power Cord for Internal Charger and Rain Cover

Also Available:

#5710A-RT8 ALPHA MUTT® (2ND GEN) WITH ABS AND RUGGED TABLET

#5710A ALPHA MUTT® (2ND GEN) WITH ABS (NO TABLET)



#5611A-RT8 ALPHA MUTT® (2ND GEN) W/ ABS, RUGGED TABLET & SLIDE-OUT BASE

Purpose-Built for Underbody and Side-Mount Tool Boxes



Service-Truck Model Features and Benefits

- Anti-vibration feet with bolt-through design for bottom mounting to service-truck boxes
- Retractable and removable slide-out base for easy access to side components and simplified field service
- Soft-close drawer with integrated tablet docking/charging station and custom foam cutout storage for remote control and Bluetooth® antenna
- Two dual-line, 32-character, sealed LCD screens optimized for outdoor use with backlighting for nighttime, sunlight-readable for daytime and wide-angle view
- Internal circuit board coated to protect from moisture and corrosion
- Weather-tight steel door keeps electronics and control panel safe in all conditions

**3-YEAR
WARRANTY**

SERVICE-TRUCK MODEL

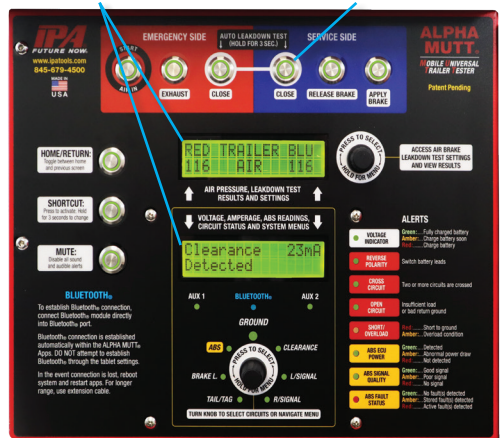


Service-Truck Model Specifications

Power Input:	12V DC
Source Output:	20A @ 12/24V DC
Ammeter:	5mA-21A
Max. Opt. Pressure:	120 psi
Connection Type:	7-Way Round Pin
Controls:	Tablet, Remote or Manual
Tablet:	Android OS
Bluetooth®:	4.0 or Newer
Switches:	Stainless Steel, Waterproof
Materials:	16 Gauge Powder-Coated Steel
Weight:	54 lbs.
Dimensions:	16 1/2" W x 21 1/2" H x 19" D
Base Extension:	Up to 33"

**Wide-Angle View LCD
Screens Readable in
Direct Sunlight**

**Sealed, Waterproof Face with
Illuminated Stainless Steel
Pushbutton Switches**



Includes

8" Rugged Tablet, 12-Button Remote Control, 20' 7-Way Cable, 20' Gladhand Hoses with Handles, Bluetooth® Antenna, 5' Bluetooth® Antenna Extension Cable and Power Cable

Also Available:

- #5611A ALPHA MUTT® (2ND GEN) W/ ABS & SLIDE-OUT BASE (NO TABLET)
- #5610A-RT8 ALPHA MUTT® (2ND GEN) W/ ABS & RUGGED TABLET (NO SLIDE-OUT BASE)
- #5610A ALPHA MUTT® (2ND GEN) W/ ABS (NO TABLET OR SLIDE-OUT BASE)

#5510A-RT8 ALPHA MUTT® (2ND GEN) WITH ABS AND RUGGED TABLET

For Those Who Need the Flexibility Between Shop and Service-Trucks



Bench-Top Model Features and Benefits

- Tests continuity to trailer connectors of tractor
- Tests air brake output at tractor gladhands
- Two dual-line, 32-character, sealed LCD screens optimized for outdoor use with backlighting for nighttime, sunlight-readable for daytime and wide-angle view
- Oversized grab/tie down handles with three mounting options: hang from a truck or wall, mount to a cart, or carry around shop
- Models available with a built-in LiFePO4 battery for safe, one-man, turnkey diagnostics

**3-YEAR
WARRANTY**

BENCH-TOP MODEL



Bench-Top Model Specifications

Power Input:	12/24V DC
Source Output:	20A @ 12/24V DC
Ammeter:	5mA-21A
Max Opt. Pressure:	120 psi
Connection Type:	7-Way Round Pin
Controls:	Tablet, Remote or Manual
Tablet:	Android Operating System
Bluetooth®:	4.0 or Newer
Materials:	16-Gauge Powder-Coated Steel
Weight:	56 lbs.
Dimensions:	w/ Handles/Brackets 22" W x 31" H x 14" D w/o Handles/Brackets 17" W x 31" H x 14" D



Carry Handle



Bottom Mount



Back Mount

Tri-Mount Design

Includes

8" Rugged Tablet, 12-Button Remote Control, 12' 7-Way Cable, 12' Gladhand Hoses with Handles, Bluetooth® Antenna, 5' Bluetooth® Antenna Extension Cable and Power Cable

Also Available:

#5510A-T10 ALPHA MUTT® (2ND GEN) WITH ABS AND TABLET

#5510A ALPHA MUTT® (2ND GEN) WITH ABS (NO TABLET)

#5510A-L4RT8 ALPHA MUTT® (2ND GEN) WITH ABS, BUILT-IN BATTERY AND RUGGED TABLET

#5510A-L4T10 ALPHA MUTT® (2ND GEN) WITH ABS, BUILT-IN BATTERY AND TABLET

#5510A-L4 ALPHA MUTT® (2ND GEN) WITH ABS AND BUILT-IN BATTERY (NO TABLET)

#9008-DL SUPER MUTT® PRO EDITION

Advanced, Remote-Controlled, Diagnostic Trailer Testers

SHOP MODEL



ELECTRICAL TESTING (12/24 Volt Operation)

- Power lights: Manually, All-On, Auto Scan, or by Remote Control
- Audible and visual alerts: cross, open, overloaded, short circuit and ground integrity indication
- Pulsar® mode allows diagnostic repair
- Amperage readout and range (0-20 amps)

AIR BRAKE TESTING

- Performs leak-down test on service and emergency lines
- Remote control allows observation of slackers to measure and adjust pushrods
- Real time, repetitive brake activation to find developing problems and verify leaking servo cans

REMOTE CONTROL

- Included 12-button remotes provide 200+ ft. range
- Sync multiple (up to 12) remotes to one unit

3-YEAR WARRANTY

Cable Testing Port



Specifications

Power:	12/24V DC
Air Input:	120 psi Shop Air
Power Input:	Group 31 or Similar Battery (Not Included) or External 12/24V Power Source
Output:	20A @ 12V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	56 lbs.
Dimensions:	21" W x 34" H x 15" D



#9008-SE Base Model Includes

12-Button Remote Control, 5' 7-Way Cable, and 8' Gladhands



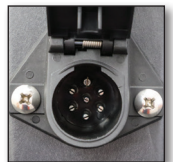
#9008-DL PRO EDITION Includes

#9008-SE Accessories, 12-Button Remote Control, 10A Smart Battery Charger, Face/Battery Shield and Rain Cover



12-button remote for one-man testing

7-Way Round Pin Connection



TRAILER & ELECTRICAL MAINTENANCE

#9005A SUPER MUTT®

Diagnostic Light, Air Brake and ABS Tester Designed for Service Trucks and Mobile Applications



3-YEAR
WARRANTY

Specifications

Power:	12/24V DC
Air Input:	120 psi Shop Air
Internal Battery:	Yuasa YTX14 or Similar (Not Included)
Ext. Power Input:	Adequate 12V Power Source, i.e., Group 31 Battery or Similar
Output:	20A @ 12V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	26 lbs.
Dimensions:	12" W x 11 1/2" H x 9 1/2" D

BENCH-TOP MODEL



Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, External Battery Connector, 8' Gladhands, 500mA Battery Charger and Face Shield



Optional Battery Not Included



7-Way Round Pin Connection



#9005A-EXT – 12' Gladhands and 12' 7-Way Cable

#M2000 NATO MUTT®

Quickly Troubleshoots and Repairs Military and Commercial Trailer Lights, Air Brakes and ABS

The **NATO MUTT®** is designed for on or off-site inspections.

Specifications

Power:	12/24V DC
Power Input:	Group 31 (or Similar, Not Included) or External 12V Power Source
Output:	20A @ 12/24V DC
Connection Type:	12-Pin STANAG 4007 NATO & 7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	40 lbs.
Body Dimensions:	21" W x 34" H x 15" D

Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, 8' Gladhands, 10A Smart Battery Charger, Face Shield and Rain Cover



SHOP MODEL



3-YEAR
WARRANTY



7-Way Round Pin and 12-Pin NATO Connections



#4105 SMART MUTT® X

A Universal, Remote-Controlled, Diagnostic Light Tester for All North American Trailers



Built to facilitate a one-man lights and electric brake testing operation, the **Smart MUTT® X** is designed to be used on five trailer connection types.

Specifications

Power:	12/24V DC
Internal Battery:	Yuasa YTX14 or Similar (Optional, Not Included)
Output:	20A @ 12V DC
Connection Type:	7-Way Round & 7-Way Flat Pin (6-Way Round, 4/5-Pin with Adapter)
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	11.5 lbs.
Dimensions:	15" W x 9" H x 9 3/4" D

BENCH-TOP MODEL



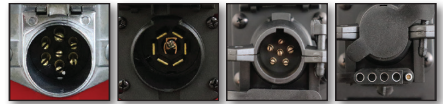
Includes

12-Button Remote Control, 3-Way Trailer Adapter and 500mA Battery Charger



7-Way Round
Pin Connection

7-Way Flat Pin Connection
Adapts to 6-Way Round and 4/5 Pin



Also Available:

#4105-L4 SMART MUTT X WITH BUILT-IN BATTERY

#4205 SMART MUTT® X PRO EDITION

A Universal, Remote-Controlled, Mobile Diagnostic Light Tester for All North American Trailers

Features a rugged cart body for one-man lights and electric brake testing operation on 7-way flat (spade), 7-way round, 6-way round, 5-pin and 4-pin connections.

Specifications

Power:	12/24V DC
Internal Battery:	Group 31 (or Similar, Not Included) or External 12V Power Source
Output:	20A @ 12V DC
Connection Type:	7-Way Round & 7-Way Flat Pin (6-Way Round, 5-Pin and 4-Pin with Adapter)
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	31 lbs.
Dimensions:	21" W x 36.5" H x 15" D

SHOP MODEL



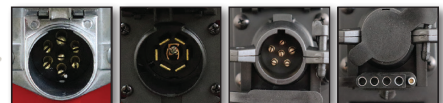
Includes

(2) 12-Button Remote Controls, 5' 7-Way Cable, 3-Way Trailer Adapter, 10A Smart Battery Charger and Rain Cover



7-Way Round
Pin Connection

7-Way Flat Pin Connection
Adapts to 6-Way Round and 4/5 Pin



TRAILER & ELECTRICAL MAINTENANCE

#9007A SMART MUTT® (7-WAY ROUND PIN)

A Portable Unit for Commercial Trailer Lighting and ABS

Built to facilitate a one-man testing operation, the **Smart MUTT®** reduces guesswork and inspection time to prevent electrical and ABS failures that lead to expensive road calls and citations.



BENCH-TOP MODEL

Specifications

Power:	12/24V DC
Internal Battery:	Yuasa YTX14 or Similar Recommended (Optional, Not Included)
Ext. Power Input:	Adequate 12V Power Source, i.e., Group 31 Battery or Similar
Output:	20A @ 12V DC
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Materials:	Steel Construction
Weight:	15 lbs.
Dimensions:	12" W x 9" H x 9 1/2" D



Optional Battery
Not Included

7-Way Round Pin
Connection

Includes

12-Button Remote Control, 5' 7-Way Cable and 500mA Battery Charger



LIFEPO4 LITHIUM IRON PHOSPHATE BATTERY

An Environmentally Safe, Long Lasting and Stronger Battery!

LiFePO4 (Lithium Iron Phosphate) batteries are superior to other lithium and lead acid batteries in many ways. They are safer for users and the environment, require little to no maintenance, have longer lifespans with better charging/discharge efficiency, and are lighter in weight.

IPA® chose to use the LiFePO4 battery in our Mobile Universal Trailer Testers specifically for the overwhelming advantages they offer not only to the tester, but to the user as well. Proper trailer testing is hard enough, let an IPA® LiFePO4 battery-powered MUTT® make things easier.

LiFePO4 Battery Features and Benefits

- Lithium iron phosphate composition is non-toxic and naturally non-combustible
- Lighter and safer than standard lithium ion batteries
- Stronger charge efficiency and greater discharge capabilities
- Longer lifespan - get more inspections out of one charge
- No memory effect - will not lose charge longevity over time
- Withstands extreme temperatures (-4°-165°F)

LiFePO4 Battery Available with

- Alpha MUTT® (2nd Gen) with ABS Bench-Top Models (#5510A Series)
- Super MUTT® Service-Truck Models (#9005A Series)
- Smart MUTT® Models (#9007A and #4105 Series)
- Ranger MUTT® Models (#4300A, #9102 and #9101 Series)

#4300A-L4 SUPER RANGER MUTT® WITH ABS

Ultra-Portable, Battery-Powered and Remote-Controlled Advanced-Diagnostic Trailer Tester for ABS and Lights



**3-YEAR
WARRANTY**

Test the trailer without a truck! This turnkey, advanced ABS and lights diagnostic tool includes a built-in LiFePO4 battery, is microprocessor controlled, and features state-of-the-art current sensing, computer-controlled circuit protection, live circuit monitoring with automatic fault alerts, as well as digital voltage and amperage draw readout.

ELECTRICAL TESTING (12/24 Volt Operation)

- Automatic cross, open, overload, short and ground fault detection
- Highly accurate digital ammeter with 5mA resolution
- Chase down short circuits with Pulsar® mode
- Ground failure detection: differentiates between wire and chassis ground
- Cable testing
- Controls lights by remote or manually

ABS TESTING

- Reads and clears codes on LCD screen
- Accesses ECU data; manufacturer, make, model, etc.
- Displays diagnostic troubleshooting information
- Automatically detects corroded ABS wires and faulty ECU's with patent-pending technology

REMOTE CONTROL

- Included 12-button remote provides 200+ ft. range
- Sync multiple (up to 12) remotes to one unit

Specifications

Input:	12V DC
Output:	10A @ 12V DC
Ammeter:	Digital 5mA Resolution
Built-In Battery:	Lithium Iron Phosphate (LiFePO4)
Connection Type:	7-Way Round Pin
Controls:	Manual, Remote, Automatic
Weight:	11.3 lbs.
Dimensions:	17" W x 11" H x 9" D

Includes

12-Button Remote Control, 8' 7-Way Cable and 500mA Battery Charger



TRAILER & ELECTRICAL MAINTENANCE

#9102 HEAVY RANGER® MUTT®

Portable, Water-Resistant Trailer Tester for Lights and Electric Brakes on Commercial Trailers



Features and Benefits

- Tests 7-way round pin trailer-side harnesses
- Short circuit protection
- Turn signal simulation and power verification LED
- Analog diagnostics
- Water-resistant case with internal battery compartment



Specifications

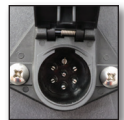
Input:	12V DC
Output:	10A @ 12V DC
Battery Type:	Yuasa YTX14 or Similar (Not Included)
Battery Dimensions:	5 7/8" L x 3 3/8" W x 5 3/4" H
Overload Protection:	Automatic Resetting Internal Breaker
Connection Type:	7-Way Round Pin
Controls:	Manual Control Knob
Weight:	2 lbs. (Empty)
Dimensions:	11" W x 7" H x 5" D

Includes

500mA Battery Charger



7-Way Round Pin Connection



#9101 LIGHT RANGER MUTT®

Portable, Water-Resistant Trailer Tester for Lights and Electric Brakes on Boat, RV and Utility-Type Trailers



Features and Benefits

- Tests 7-way flat (spade), 6-way round and 4/5 pin trailer-side harnesses
- Short circuit protection
- Turn signal simulation and power verification LED
- Analog diagnostics
- Water-resistant case with internal battery compartment



Specifications

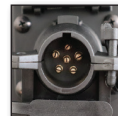
Input:	12V DC
Output:	10A @ 12V DC
Battery Type:	Yuasa YTX14 or Similar (Not Included)
Battery Dimensions:	5 7/8" L x 3 3/8" W x 5 3/4" H
Overload Protection:	Automatic Resetting Internal Breaker
Connection Type:	7-Way Flat (Spade) Pin
Controls:	Manual Control Knob
Weight:	2 lbs. (Empty)
Dimensions:	11" W x 7" H x 5" D

Includes

500mA Battery Charger and 3-Way Trailer Adapter



7-Way Flat Pin Connection Adapts to 6-Way Round and 4/5 Pin



#9200A TACTICAL TRAILER TESTER FIELD KIT W/ ELECTRIC BRAKE FORCE METER

Test and Clean Tow Circuits on All Trucks and Trailers in North America



- Tests all truck-side tow circuits
- Tests all trailer circuits
- Cleans all truck and trailer electrical connections
- Custom case is water and crushproof and features a Pressure Equalizer (Purge) Valve
- Lifetime warranty on case



Includes

Electric Brake Force Meter, Heavy Ranger® MUTT®, 8' 7-Way Round Cable, 500mA Battery Charger, 3-Way Trailer Adapter, Diamond-Tip Electrical Terminal Cleaners, 7-Way Round to 7-Way Flat Adapter, 4/5 Pin Trailer Harness Checker, Truck and Trailer Pin Master Cleaner Set, 6-Way Round Pin Trailer Circuit Tester, 7-Way Round Pin Tractor Trailer Circuit Chaser®, 7-Way Flat (Spade) Pin Trailer Circuit Tester

Also Available:

#9200 Tactical Trailer Tester Field Kit

#9107B ELECTRIC BRAKE FORCE METER W/ DYNAMIC LOAD SIMULATION & CIRCUIT TESTING

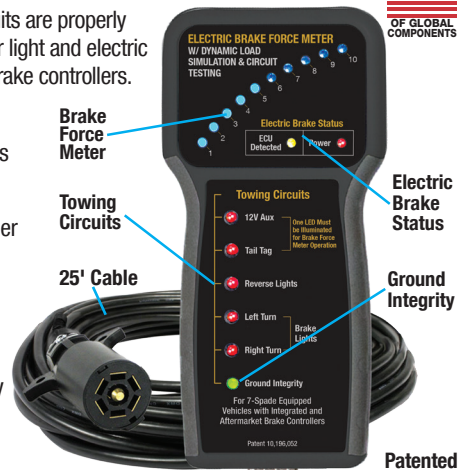
Simulates Trailer Load and Tests All Truck-Side Circuits



An all-in-one tester that can verify a vehicle's trailering circuits are properly functioning. Patented technology accurately simulates trailer light and electric brake loads to test modern vehicles with integrated trailer brake controllers.

Features and Benefits

- Includes 2023 updates for the latest model year vehicles
- Tests vehicle trailer light and electric brake systems
- Patented technology works with modern integrated trailer brake controllers and aftermarket brake controllers
- 25' cable allows one-man, in-cab testing of brake controller and all truck-side tow circuits
- Use to verify that the vehicle's adaptive (speed/load sensitive) brake-controller output is functioning properly
- Comes in a soft nylon case



Real-Time Brake Force Output Gain and Timing



Complete One-Man Solution with In-Cab Testing



7-Way Flat (Spade) Vehicle Female Socket (Front View)

TRAILER & ELECTRICAL MAINTENANCE

MODEL	PIN TYPE	DIAGNOSTIC	ABS CODES	BRAKE TESTING
 #9101 LIGHT RANGER MUTT® Small Trailer	7-Way Flat (Spade) Pin	Short Circuit Protection	N/A	Electric Brake Circuit (Max Output 10 Amp)
 #9102 HEAVY RANGER MUTT® Semi Trailer	7-Way Round Pin	Short Circuit Protection	N/A	10 Amp Max Output Available
 #4300A-L4 SUPER RANGER MUTT® WITH ABS Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	10 Amp Max Output Available
 #4105 SMART MUTT® X <small>BENCH-TOP MODEL</small> Small and Semi Trailer	7-Way Flat (Spade), 7-Way Round, 6-Way Round, 4/5 Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Electric Brake Circuit (Max Output 20 Amp)
 #4205 SMART MUTT® X <small>PRO EDITION</small> <small>SHOP MODEL</small> Small Trailer	7-Way Flat (Spade), 7-Way Round, 6-Way Round, 4/5 Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Electric Brake Circuit (Max Output 20 Amp)
 #9007A SMART MUTT® <small>BENCH-TOP MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	20 Amp Max Output Available on Auxiliary Circuit
 #9005A SUPER MUTT® <small>BENCH-TOP MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #9008-DL SUPER MUTT® <small>PRO EDITION</small> <small>SHOP MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #M2000 NATO MUTT® <small>SHOP MODEL</small> Semi and Military Trailer	7-Way Round Pin 12-Pin NATO	Short Circuit Protection, Cross and Open Circuit Sensing	Blink Code	Air Brakes
 #5611A-RT8 ALPHA MUTT® (2 ND GEN) W/ ABS, RUGGED TABLET & SLIDE-OUT BASE <small>SERVICE-TRUCK MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Digital Air Brake and Leakdown Testing
 #5510A-RT8 ALPHA MUTT® (2 ND GEN) W/ ABS & RUGGED TABLET <small>BENCH-TOP MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Digital Air Brake and Leakdown Testing
 #5710A-T10 ALPHA MUTT® (2 ND GEN) W/ ABS & TABLET <small>SHOP MODEL</small> Semi Trailer	7-Way Round Pin	Short Circuit Protection, Cross and Open Circuit Sensing	ABS Testing	Digital Air Brake and Leakdown Testing

TRAILER & ELECTRICAL MAINTENANCE

REPORTING	REMOTE	BATTERY CHARGER	BATTERY TYPE	BODY	WEIGHT	WARRANTY
N/A	N/A	500mA	Group 14 (LiFePO4 Available)	Plastic Enclosure w/ Carrying Handle	2 lbs.	1 yr.
N/A	N/A	500mA	Group 14 (LiFePO4 Available)	Plastic Enclosure w/ Carrying Handle	2 lbs.	1 yr.
N/A	12-Button Remote	500mA	Built-In LiFePO4 Battery	Plastic Enclosure w/ Carrying Handle	11.3 lbs.	3 yr.
N/A	12-Button Remote	500mA	Group 14 (LiFePO4 Available)	Steel Enclosure w/ Carrying Handle	11.5 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Unibody Steel Cart w/ Foam Wheels	31 lbs.	3 yr.
N/A	12-Button Remote	500mA	Group 14 (LiFePO4 Available)	Steel Enclosure w/ Carrying Handle	15 lbs.	3 yr.
N/A	(2) 12-Button Remotes	500mA	Group 14 (LiFePO4 Available)	Steel Enclosure w/ Carrying Handle	26 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Unibody Steel Cart w/ Foam Wheels	56 lbs.	3 yr.
N/A	(2) 12-Button Remotes	10A Smart Charger	Group 31	Unibody Steel Cart w/ Foam Wheels	40 lbs.	3 yr.
✓	12-Button Remote, Rugged Tablet	N/A	Group 31	Steel Enclosure with Slide-Out Base	54 lbs.	3 yr.
✓	12-Button Remote, Rugged Tablet	500mA	Group 31 (LiFePO4 Available)	Steel Enclosure with Tri-Mount Handles	56 lbs.	3 yr.
✓	12-Button Remote, Tablet	10A Smart Charger (Integrated)	Group 31	Unibody Steel Cart w/ Pneumatic Wheels	85 lbs.	3 yr.

Test, Clean and Restore Connectors and Terminals on Cars, Trucks, Agricultural, Industrial, Landscaping, Contracting, Sporting and Fleet Connections



- Quickly test, clean and repair truck and trailer connectors
- Extend harness life
- Great preventative maintenance tools
- Promote safety and limit road hazards
- Connector cleaners can be used as a pin-wear gauge



#8029 7-WAY ROUND PIN TOWING MAINTENANCE KIT

Includes

- #7865L: 7-Way Round Pin Tractor Trailer Circuit Chaser®
- #8024: 7-Way Round Pin Connector Cleaners



#8028 7-WAY FLAT (SPADE) PIN TOWING MAINTENANCE KIT

Includes

- #7893: 7-Way Flat (Spade) Pin Trailer Circuit Tester
- #8023: 7-Way Flat (Spade) Pin Connector Cleaners



#8027 6-WAY ROUND PIN TOWING MAINTENANCE KIT

Includes

- #7897: 6-Way Round Pin Trailer Circuit Tester
- #8021 and #8022: 6-Way Round Pin Connector Cleaners



#8026 4/5 PIN TOWING MAINTENANCE KIT

Includes

- #7866: 4/5 Pin Trailer Harness Checker
- #8021: 4/5 Pin Connector Cleaner



TRAILER CIRCUIT TESTERS, ADAPTERS, AND MAINTENANCE KITS

Test Towing Circuits at the Back of the Truck

The trailer circuit testers allow one man to test trailer circuits quickly and easily.

- Plugs into the vehicle side socket
- LEDs indicate that each circuit is working
- Winged grip for easy installation and removal



#7865L 7-WAY ROUND PIN TRACTOR TRAILER CIRCUIT CHASER®

“One-man testing” for male and female 7-way round pin tractor trailer plugs.

- Allows bypassing of troubled circuitry while on the road
- Packaged with a brass jumper



#7893 7-WAY FLAT (SPADE) PIN TRAILER CIRCUIT TESTER

Tests trailer circuits from the tow vehicle quickly and easily on most light and medium-duty trucks and RVs.



#7897 6-WAY ROUND PIN TRAILER CIRCUIT TESTER

Tests trailer circuits from the tow vehicle quickly and easily on older light and medium-duty trucks and RVs.



#7866 4/5 PIN TRAILER HARNESS CHECKER

Allows one man to trace each lighting function to the terminal in question.



#8000 3-WAY TRAILER ADAPTER

Connect 7-way flat (spade) pin terminal connections to 6-way round pin and 4/5 pin trailer connections.

- Sealed plugs to keep dirt and road debris from corroding connections



#TSTPK1 MULTI TRAILER TESTER JOBBER PACK

All the popular trailer circuit testers in one clamshell.

Includes

- #7866: 4/5 Pin Trailer Harness Checker
- #7897: 6-Way Round Pin Trailer Circuit Tester
- #7893: 7-Way Flat (Spade) Pin Trailer Circuit Tester
- #7865L: 7-Way Round Pin Tractor Trailer Circuit Chaser® (Includes One Brass Jumper)
- #8000: 3-Way Trailer Adapter (7-Way Flat Pin To 6-Way Round Pin and 4/5 Pin)



Quickly Clean Tractor Trailer Plug and Socket Connections

NEW

The **7-Way BrushAll® Trailer Brush** completely removes corrosion from tractor trailer cables and socket connections with one simple push-and-pull action. The brushes are arranged to perfectly line up with connector pins for precision cleaning. The innovative, patent-pending design also includes an oversized, integrated, ergonomic handle made from solid core ABS plastic with a rubber overlay double grip. This allows the user to fully insert cable ends into the brush housing and remove all pin corrosion with one action.

- Easily and effectively cleans 7-way round pin, male and female trailer plug and socket connections
- Removes corrosion and improves electrical connections
- Helps to eliminate guesswork associated with bad grounds and intermittent open circuits
- Heavy-duty design with precision-made brushes
- Includes a removable protective cap



#8048 HD FLEET TECHNICIAN'S ELECTRICAL TERMINAL MAINTENANCE SET

Specially Designed Tools for Cleaning All Vehicle Electrical Connections in Commercial Heavy-Duty Fleets



Cleans and restores male and female terminals on fleet connections.

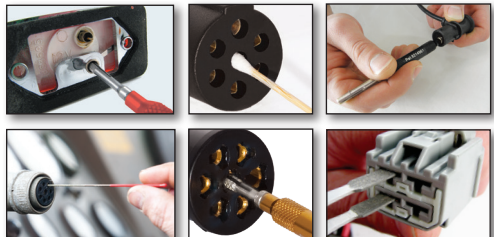
- Removes corrosion and extends harness life
- Ensures proper diagnostic connectivity
- Connector types: Deutsch, Cannon, 7-way round pin, Bullet, Weather Pack, common ABS sensor and power connectors, trailer light connectors, common plow connections, etc.

Includes

- Large and small spade terminal cleaners
- 7-Way Round Pin Terminal Cleaners
- ABS sensor/power connector cleaner
- 10 Diamond Micro Round Files
- Trailer light bullet connector cleaner
- SWAB-EEZ®
- Premium-quality holster with magnetic clasp



Patented



#8044 TRUCK AND TRAILER PIN MASTER CLEANER SET

**LIFETIME
WARRANTY**

Patented

The Only Set of Tools to Clean Every North American Trailer Connector

Clean and restore male and female connectors on any trailer connection used in North America.

- Maintains continuity and helps prevent circuit failure
- Cleans and resizes trailer pins
- Removes corrosion and increases harness life



ASSEMBLED
IN USA FROM
GLOBAL
COMPONENTS

Includes

- 4/5 Pin Terminal Cleaner
- 6-Way Round Pin Terminal Cleaner
- 7-Way Flat (Spade) Pin Terminal Cleaners
- 7-Way Round Pin Terminal Cleaners
- SWAB-EEZ®
- Premium-quality holster with magnetic clasp

#8025 LIGHT-DUTY TRUCK AND TRAILER CONNECTOR CLEANERS

**LIFETIME
WARRANTY**

Patented

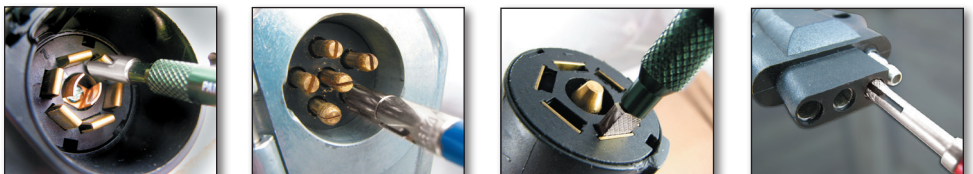
For Light-Duty Truck and Trailer Connectors

Clean and resize male and female connectors on 7-way flat (spade), 6-way round and 4/5 pin terminals.

- Services tail and side-marker light assemblies
- Maintains continuity and prevents circuit failure
- Quickly cuts away corrosion

Includes

- #8021 - For 4/5 Pin Male and Female and 6-Way Round Pin
- #8022 - For 4/5 Pin Male and Female and 6-Way Round Pin Male and Female
- #8023 - For 7-Way Flat (Spade) Pin Male and Female



ASSEMBLED
IN USA FROM
GLOBAL
COMPONENTS

#8024 7-WAY ROUND PIN CONNECTOR CLEANERS



Patented

For Commercial Truck and Trailer Connectors

Clean and resize male and female 7-way round pin tractor trailer connectors.

- Maintains continuity and prevents circuit failure
- Quickly and precisely cuts away corrosion
- Enhances electrical contact points and extends harness life
- Use as a pin-wear gauge
- Male and female terminal cleaners included



Cleans and
resizes male...

...AND female
connectors



Male Cleaner

Easy Grip

Female Cleaner

#8045 PLOW TERMINAL CLEANERS



Patented

The First Set of Tools for Cleaning Dirty, Corroded Plow Connectors

Clean and restore male and female electrical plow connectors used on most Boss, Fisher, Meyer, Western plows, etc.

- Removes corrosion and increases harness life
- Repairs intermittent electrical connections

Includes

- Small, medium and large male and female terminal cleaners
- Premium-quality holster with magnetic clasp



RAMRODZ® GUN CLEANING SYSTEM



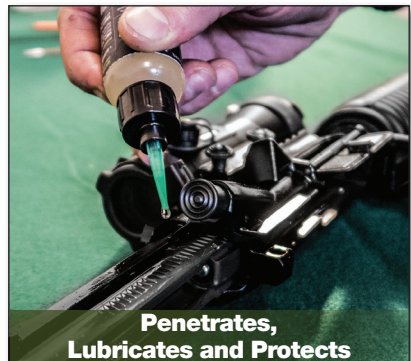
As gun owners, we knew the pitfalls of old gun cleaning methods first-hand, so we set out to create a better, faster and more efficient way to clean our guns. It had to hold up to the rigors of gun cleaning - it needed to be strong, absorbent, and precise to fit perfectly into a barrel, but versatile enough to use on all parts. The result was so great that we launched RamRodz® Inc., a company dedicated to providing a superior gun cleaning system that would change the market.

RamRodz® Barrel and Breech Cleaners are a line of precision gun cleaning swabs that eliminate the need for cotton patches. They provide far superior gun cleaning performance in a fraction of the time without the hassle and mess. All RamRodz® models are ideal for cleaning barrels, receivers, slides, chambers, magazine housings, breeches and more.

RamRodz® feature industrial-strength cotton heads that conform to barrel walls, removing dirt and debris that patches, snakes and brushes leave behind! The density of the low-lint cotton soaks up cleaning solvent without any drip or splatter, releasing only when pressure is applied. This ensures a more efficient cleaning method and a cleaner work environment.

The flexible 8", bamboo handles on pistol models are specially engineered to easily withstand the rigors of reaching into tight areas. The 3" bamboo handles for rifle and shotgun models are designed to be inserted into the included adapters that connect to RamRodz® Bore Cables and standard cleaning rods for long-barrel cleaning.

RamRodz® provides a complete cleaning system: precision bore cleaners, non-toxic two-stage cleaning solution and lubricant, as well as specialized tools for accessing hard-to-reach areas and gunsmithing. RamRodz® truly is... **A Revolutionary Gun Cleaning System.**



Caliber-Specific Barrel and Breech Cleaners for Most Handguns, Rifles and Shotguns

- Highly absorbent, low-lint cotton heads
- 3" and 8" flexible bamboo handles
- No drip, mess or hassle
- Disposable and biodegradable
- Also ideal for cleaning slides, receivers, chambers, magazine housings, breeches and more

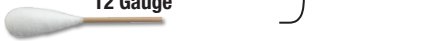


WARNING: Unload Firearm Before Cleaning

Hanging Bags

Part No. Description
Quantity

#22300	.22 Caliber	300
#38200	.38/.357/.380/9mm Caliber	200
#40100	.40/10mm Caliber	120
#45075	.44/.45/.410 Caliber	100
#50075	.50 Caliber	80
#22600	.223/5.56mm Caliber	600
#22050	.223/5.56mm Caliber	50
#30300	.30/.308/7.62mm Caliber	300
#20080	20 Gauge	80
#12060	12 Gauge	60
#80250	Gun Detailing Assortment	250



Chisel Tip .223/5.56mm Caliber
 .30/.308/7.62mm Caliber
 20 Gauge
 12 Gauge

Free Adapter Included

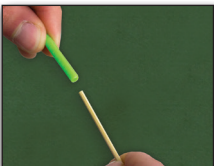
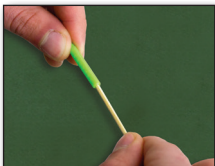
#60010 RIFLE AND SHOTGUN ADAPTERS

Patented

For Use with Caliber-Specific RamRodz® to Clean Long Guns

The RamRodz® **Rifle and Shotgun Adapters** provide an efficient way to clean rifle and shotgun barrels using caliber-specific RamRodz®.

- When used with RamRodz®, eliminates the need for patches
- Made of durable, reinforced nylon
- Fits standard cleaning-rod threads ($\frac{9}{32}$ ")



Push to Install and Pull to Release



Rifle

Shotgun

#70035 RAMRODZ® PROFESSIONAL GUN CLEANING MASTER KIT

The Most Comprehensive, Patchless, Precision Detailing Kit for the Most Common Caliber and Gauge Sizes

The **Professional Gun Cleaning Master Kit** includes all the brushes, solvents, oils, swabs and attachments needed to clean your entire gun, inside and out. It includes over 550 precision tools and accessories to clean guns for .22 – .45 caliber, as well as 12 and 20 gauge. The specially designed, professional-grade case provides four layers for versatility. The top layer houses cleaning accessories and attachments; the two middle layers include a fold-out cleaning mat and portable work tray; the bottom layer holds bulk precision swabs, solvent, oil and oiling cloth.

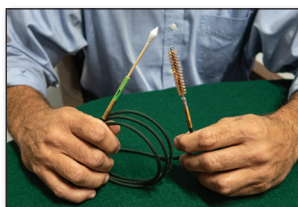
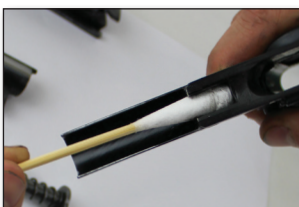


Features and Benefits

- For detailing and cleaning guns with caliber and gauge sizes .22 to .75 and 5mm – 12 gauge
- Non-toxic and odor-free cleaning solution and lubricating oil with precision applicator tips
- High performance cleaner destroys carbon; lubricant works in extreme temperatures (-20°F to 520°F)
- Prevent rust on metal components with premium, silicone-infused oiling cloth
- Low-lint, industrial-grade precision cotton swabs

Includes

(8) Standard Bore Brushes, (3) Long Micro Tube Brushes, (3) Double-Ended Specialty Brushes, (2) Double-Ended Picks, Interlocking-Claw Tweezers, Cleaning Mat, Portable Work Tray, Pull-Through Cable and Push Rods with Threaded Adapters, Cleaning Solution, Lubricating Oil, Silicon Oiling Cloth, (500+) Precision Cleaning Swabs



RAMRODZ® RANGE KITS

Start Your RamRodz® Collection with the Convenient and Refillable Range Kit

The caliber-specific, low-lint cotton head RamRodz® are designed to expand into rifling grooves and conform to barrel walls, cleaning the maximum amount of surface area with each pass.

- Assorted RamRodz® in five common calibers for either pistols or rifles/shotguns
- Breech Cleaner model cleans slides, receivers, breeches and more
- 3" or flexible 8" bamboo handles with low-lint, caliber-specific cotton heads
- Easily stored in a range bag or gun safe



#70680 - for Pistols

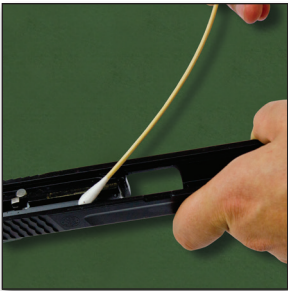
Description	Quantity
.22 Caliber	100
.38/.357/.380/9mm Caliber	60
.40/10mm Caliber	50
.44/.45/.410 Caliber	40
.50 Caliber	30
Breech	400

#70565 - for Rifles/Shotguns

Description	Quantity
.223/5.56mm Caliber (Chisel Tip).....	250
.22 Caliber.....	100
.30/.308/7.62mm Caliber.....	125
.45/.410 Caliber.....	30
20 Gauge	35
12 Gauge	25



Barrel Cleaning



Detail Cleaning



Gauge Sizing Chart

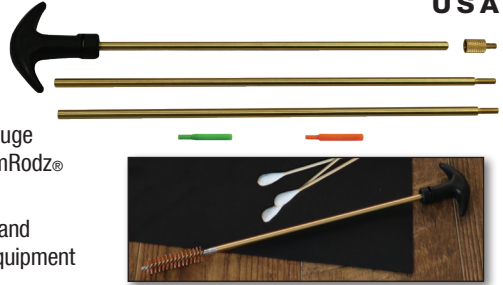
#70035R RAMRODZ® PUSH-ROD WITH HANDLE AND EXTENSIONS

4-Piece, High-Quality, USA Made Brass Cleaning Rod for Use with RamRodz® Caliber-Specific Swabs and Brushes



Features and Benefits

- High-quality, strong and lightweight brass rods
- Easy screw-in assembly with handle
- Includes handle, 2 extension rods, 8/32" to 12 gauge adapter, 2 RamRodz® shotgun adapter, and 2 RamRodz® rifle adapters
- For use with all RamRodz® caliber-specific swabs and brushes, as well as most standard gun-cleaning equipment



RAMRODZ® CLEANING SOLUTION AND LUBRICANT

Biodegradable, Non-Toxic and Odorless Cleaning Solution and Lubricant that Destroys Carbon, Lead and Copper Instantly!

Features and Benefits

#67004C 4 OZ. FIREARM CLEANING SOLUTION

- Odorless and chemical free without reducing performance
- Destroys carbons, lead and copper
- Safe to use in home, at the range or in the shop

#67001L 1 OZ. FIREARM LUBRICANT

- Penetrates, lubricates and protects
- Extreme friction reducing formula
- Wide working temperature range (-20°F to 520°F)
- Precision, no-drip tip



#68048 RAMRODZ® BORE CABLE KIT

48" Triple-Layer Pull Cable with Patented RamRodz® Adapters for Use with .22 - 12 Gauge RamRodz® Precision Bore Cleaners

Features and Benefits

- 48" triple-layer cable with 3/32" female threads on both ends
- Includes 4 patented RamRodz® adapters
- For use with rifles and shotguns
- Can also be used with most standard gun-cleaning equipment



RAMRODZ® GUN CLEANING SYSTEM

#70035T BORE CLEANING ACCESSORY KIT

29-Piece Kit for Cleaning Bores Ranging from .22 Caliber to 12 Gauge

Features and Benefits

- Use in conjunction with caliber-specific swabs
- Includes caliber-specific brushes, double-headed brushes and picks, MANTUS™ pliers, brass push-rod with extensions, and pull-thru cable with adapters
- Comes in a custom blow-molded case

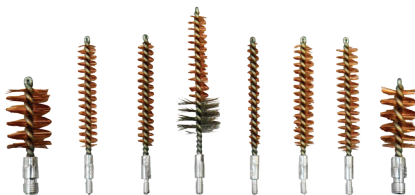


#70035B CALIBER-SPECIFIC BRUSH PACK

8-Piece Caliber-Specific Brush Set for Cleaning Bores .22 Caliber to 20 Gauge

Features and Benefits

- For use with standard push rods and bore cables
- Includes .22, .223, .30, .38, .40, .45 caliber as well as 12 and 20 gauge



#70035C SILICONE-INFUSED OILING CLOTH

Silicone-Infused Cloth for Cleaning and Protecting Gun Parts

Features and Benefits

- Premium and non-abrasive material
- Cleans and prevents rust on metal components
- Does not leave behind lint
- Total size: 11" x 15"



#70035M CHEMICAL-RESISTANT GUN CLEANING MAT

Specially Designed Mat to Protect Work Station During Cleaning

Features and Benefits

- Protects surfaces from spills, debris and carbon from gun cleaning
- Made of Hypalon material that resists ultraviolet light, extreme temperatures and the penetrative quality of RamRodZ® Cleaning Solution and Lubricating Oil
- Total size: 13" x 20"



We stand behind the quality of our tools and equipment. All of our tools are backed by a 24-Hour (business day) Repair or Replace Policy that is second-to-none. Once your item arrives at our facility, we will repair or replace it and ship it back to you within 24 hours. To return an item for warranty, call our toll free number to receive your RGA# before shipping the product back to IPA®. For more information, please call 888-786-7899 or email: tech247@ipatools.com.



**24-HOUR
REPAIR/
REPLACE**

Warranty Information

Innovative Products of America® Incorporated has established a Lifetime, 3-Year, 2-Year or 1-Year Warranty Policy, depending on each tool. Each warranty is suited to an individual product and complete warranty information is included with the product or supplied upon request.

- LR** Lifetime Warranty/Return or Replace Policy: These products are covered for their normal lifetime under the stipulation of the Standard Warranty.
- 3YR** 3-Year Limited Warranty/Return or Replace Policy: These products are covered for 3 years from date of original user purchase under the stipulations of the Standard Warranty.
- 2YR** 2-Year Limited Warranty/Return or Replace Policy: These products are covered for 2 years from date of original user purchase under the stipulations of the Standard Warranty.
- 1YR** 1-Year Limited Warranty/Return or Replace Policy: These products are covered for 1 year from date of original user purchase under the stipulations of the Standard Warranty.

SATISFACTION GUARANTEED

Hours: (M-F) 8:30 am – 5:00 pm EST

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#8152 4.5" DIAMOND CUT-OFF & GRINDING WHEEL

(PAGE 11)

**Multi-Use Diamond Cut-Off and
Grinding Wheel for Most Types
of Metals**



#7867A 7-WAY BRUSHALL® TRAILER BRUSH

(PAGE 35)

**Quickly Clean Tractor Trailer
Plug and Socket Connections**



#4300A-L4 SUPER RANGER MUTT® WITH ABS

(PAGE 28)

**Ultra-Portable, Battery-Powered, Advanced
Diagnostic Trailer Tester for ABS and Lights**



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